Four Day OLR Study (Frozen vs Chilled Samples)

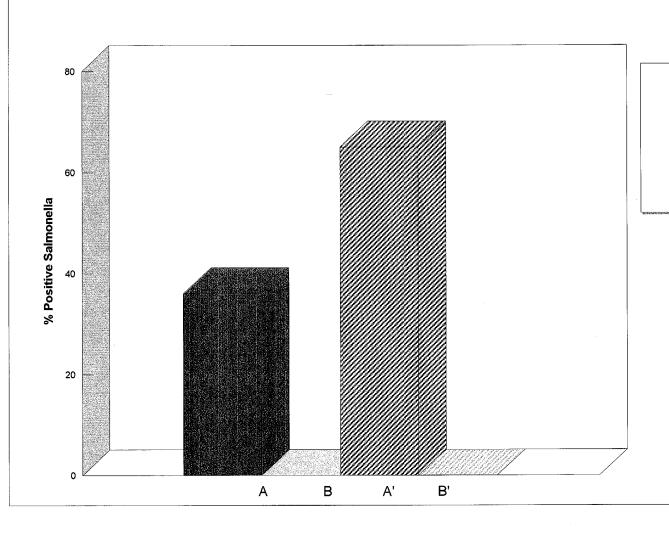
November 1998

Rhodia

OVERALL SUMMARY OF RESULTS - FOUR DAY "OLR" STUDY AT "ZT" (DAY 1 - 4) (Frozen vs Chilled Samples)

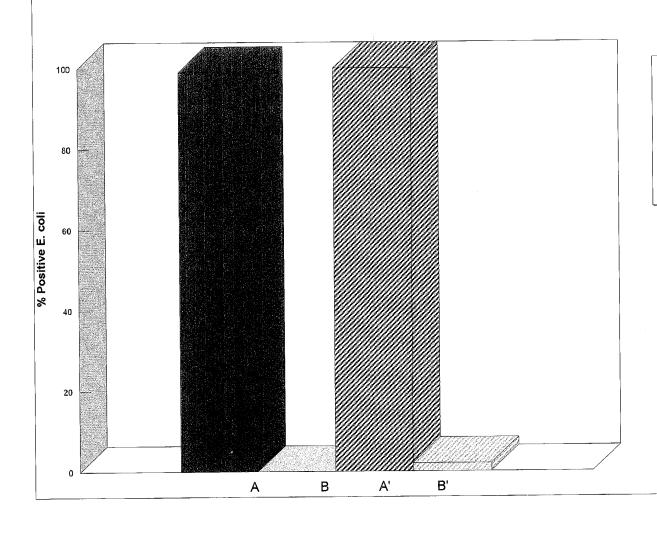
Normal Birds Site "A"	(Frozen)	# of Samples	APC		Entero		E. coli	Salmonella
	Average Incident Rate	100	35,736 100%	<	1,085 < 100%	<	892 99%	36%
Normal Birds Site "A' "	(Chilled)							
	Average Incident Rate	49	79,449 100%		4,298 100%		2,871 100%	 65%
	ocessed Birds (Frozen)							
	Average Incident Rate	100	2,417 91%	<	10 °	<	10 0%	0%
On-Line Repr Site "B' "	ocessed Birds (Chilled)							
	Average Incident Rate	50	6,034 100%	<	13 4%	<	13 2%	0%

OLR TSP TRIAL AT "ZT" (Frozen vs Chilled) Salmonella Incident rate

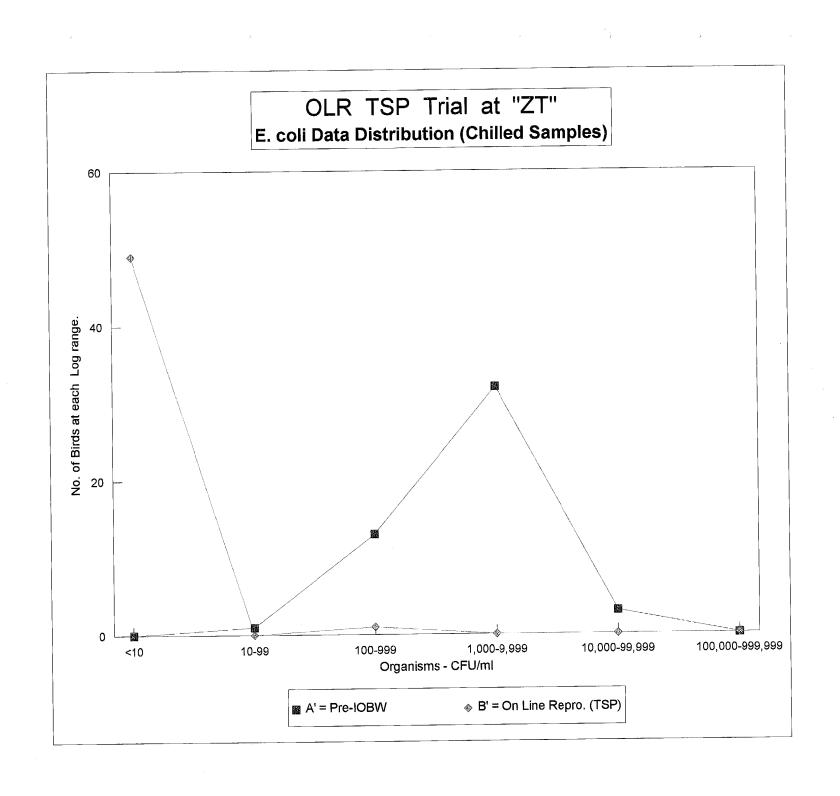


- M A = Pre-IOBW (Frozen Samples)
- B = On Line Repro. (TSP)(Frozen)
- A' = Pre-IOBW (Chilled Samples)
- ☑ B' = On Line Repro. (TSP)(Chilled)

OLR TSP TRIAL AT "ZT" (Frozen vs Chilled) E. coli Incident rate



- A = Pre-IOBW (Frozen Samples)
 ■
- A' = Pre-IOBW (Chilled Samples)
- ☑ B' = On Line Repro. (TSP)(Chilled)



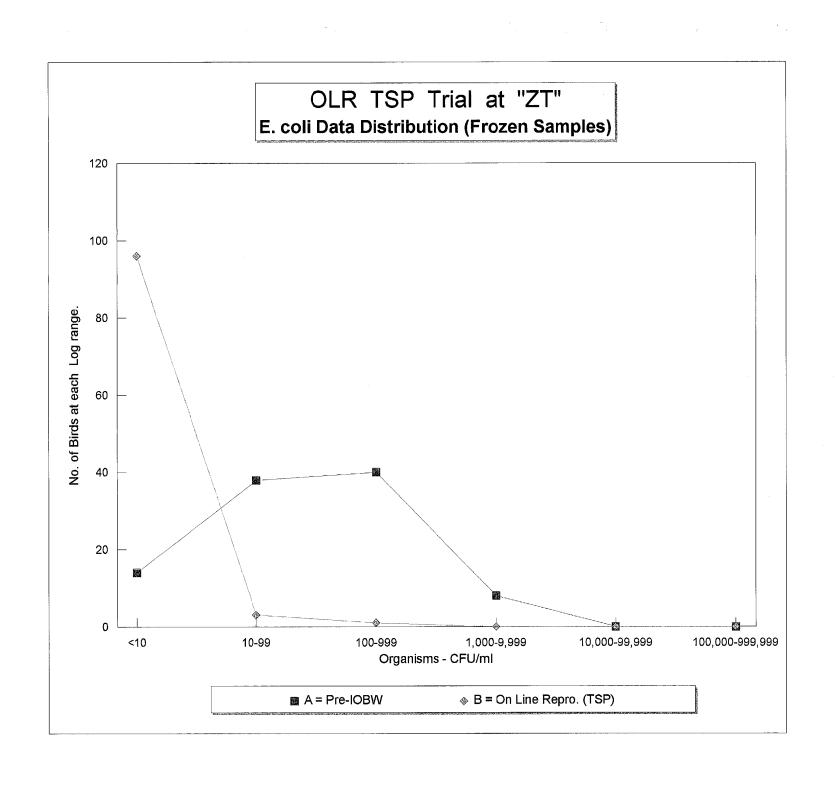
On Line Reprocessing (OLR) Trial (Chilled Samples)

E. coli Data Distribution No. of Birds at each Log range.							
	<10	10-99	100-999	1,000-9,999	10,000-99,999	100,000-999,999	Totals
A' = Pre-IOBW (day 1)	*	*	*	*	*	0	0
" " (day 2)	*	*	*	*	*	0	0
" " (day 3)	0	0	9	15	1	0	25
" " (day 4)	0	1	4	17	2	0	24
Totals	0	1	13	32	3	0	49
B' = On Line Repro. (Day1)	*	*	*	*	*	0	0
" " (day2)	*	*	*	*	*	0	0
" " (day3)	25	0	0	0	0	0	25
" " (day4)	24	0	1	0	0	0	25
Totals	49	00	1	0	0	0	50
						·	

OLR TSP Trial at "ZT"

No. of Birds at each Log range.

•	<10	10-99	100-999	1,000-9,999	10,000-99,999	100,000-999,999	Totals
A' = Pre-IOBW	0	1	13	32	3	0	49
B' = On Line Repro. (TSP)	49	0	1	0	0	0	50



On Line Reprocessing (OLR) Trial E. coli Data Distribution (Frozen Samples)

No. of Birds at each Log range.

0 0 0 0 0	25 25 25
0	25
0	
0	
•	25
0	100
0	25
0	25
0	25
0	25
0	100
	0 0 0

OLR TSP Trial at "ZT"

No. of Birds at each Log range.

F coli Data Distribution (Frozen Samples)

	<10	10-99	100-999	1,000-9,999	10,000-99,999	100,000-999,999	Totals
A = Pre-IOBW	14	38	40	8	0	0	100
B = On Line Repro. (TSP)	96	3	1	0	0	0	100

SUMMARY OF RESULTS OF FOUR DAY "OLR" STUDY AT "ZT" (DAY 1-4)

Date of Sampling: November 3 - 18, 1998

Mi	cro	bio	logy	Lab:

Raiston Analytical Lab, St Louis, MO

		# of		APC		Entero		E. coli	Salmonella
Normal Birds	(Frozen)	Samples							Gene-Track
Site "A"	Day 1	25		27,568		1,256		1,049	24%
	Day 2	25		38,016		610		585	72%
	Day 3	25		35,744		1,076	<	1,210	40%
	Day 4	25		41,616		1,398		726	8%
Average	Site "A"	100		35,736		1,085	<	892	
Incident Rate	Site "A"			100%		100%		99%	36%
On-Line Rep	rocessed Bird	ds (Frozen)							
Site "B"	Day 1	25		1,028	<	10	<	10	0%
	Day 2	25	<	4,112	<	10	<	10	0%
	Day 3	25	<	2,692	<	10	<	10	0%
	Day 4	25		1,836	<	10	<	10	0%
Average	Site "B"	100	<	2,417	<	10	<	10	
Incident Rate	Site "B"			91%		0%		0%	0%
Normal Birds	(Chilled)								
Site "A"	Day 1	*		*		*		*	*
	Day 2	*		*		*		*	*
	Day 3	25		87,840		3,787		2,272	92%
	Day 4	24		70,708		4,830		3,494	38%
Average	Site "A"	49		79,449		4,298		2,871	
Incident Rate	Site "A"			100%		100%		100%	65%
On-Line Ren	rocessed Bird	ds (Chilled)							
Site "B"	Day 1	*		*		*		*	*
	Day 2	*		*		*		*	*
	Day 3	25		6,704	<	10	<	10	0%
	Day 4	25		5,364	<	16	<	15	0%
Average	Site "B"	50	· · · · · ·	6,034	<	13		13	
Incident Rate				100%		4%		2%	0%
		L							

Notes: a) Avg. Site = Avg. of site, not Avg. of samples.

- b) Samples detected at the < 10 or <100 level, were averaged as 10 or 100 respectively.
- c) Frozen samples frozen and covered with dry ice during transit.
- d) Chilled samples covered with water ice during transit.
- d) Chilled samples taken only on days 3 and 4.

SUMMARY OF RESULTS - FOUR DAY OLR STUDY AT "ZJ" (DAY 3)

(Chilled Samples)

Date of Sampling: November 17, 1998

Microbiology	Lab:		Ralsto	n Analyt	ical Lab, S	t Louis	. MO	
					ay 3			
Normal Birds	s	# of Samples	APC		Entero		E. coli	Salmonella Gene-Track
Site "A"	Line 4	25	87,840		3,787		2,272	92%
Average	Site "A"	25	87,840		3,787		2,272	
Incident Rate	Site "A"		100%		100%		100%	92%
On-Line Rep	rocessed Bir	ds						
Site "B"	Line 4	25	6,704	<	10	<	10	0%
Average	Site "B"	25	6,704	<	10	<	10	
Incident Rate	Site "B"		100%	-1	0%		0%	0%

Notes: a) Avg. Site = Avg. of site, not Avg. of samples.
b) Samples detected at the < 10 or <100 level, were averaged as 10 or 100 respectively.

c) Samples were cold upon arrival...

RESULTS OF FOUR DAY "OLR" STUDY AT "AZBM-ZT"

AS REPORTED BY OUTSIDE CONTRACTED LABORATORY #4

TEST CONDUCTED: 17 NOVEMBER, 1998 (DAY 3)

UNRINSED CHILLED SAMPLES OF NORMAL BIRDS FROM SITE "A"

SAMPLE NUMBER	SAMPLE SITE CODE	SPECIMEN NUMBER	AEROBIC PLATE COUNT /GM	ENTEROBACTERIACEAE (VRB-GLUCOSE AGAR) CFU/ML	E. COLI (EC + Mug) CFU/ML	SALMONELLA GENE TRAK
1	Α	A-51	260,000	2,600	2,200	POSITIVE
2	Α	A-52	110,000	3,900	3,000	POSITIVE
3	Α	A-53	190,000	3,200	2,500	POSITIVE
4	Α	A-54	64,000	1,400	240	POSITIVE
5	Α	A-55	250,000	1,200	800	negative
6	Α	A-56	100,000	5,300	3,900	POŠITIVE
7	Α	A-57	46,000	2,300	2,500	POSITIVE
8	Α	A-58	25,000	1,300	510	POSITIVE
9	Α	A-59	27,000	1,700	2,100	POSITIVE
10	Α	A-60	100,000	7,900	2,900	POSITIVE
11	Α	A-61	290,000	3,100	2,400	POSITIVE
12	Α	A-62	87,000	4,100	1,000	POSITIVE
13	Α	A-63	35,000	8,000	1,100	POSITIVE
14	Α	A-64	25,000	740	590	negative
15	Α	A-65	46,000	4,700	3,700	POSITIVE
16	Α	A-66	58,000	11,000	6,900	POSITIVE
17	Α	A-67	16,000	1,200	510	POSITIVE
18	Α	A-68	29,000	630	370	POSITIVE
19	Α	A-69	39,000	1,900	1,400	POSITIVE
20	Α	A-70	27,000	3,300	3,200	POSITIVE
21	Α	A-71	12,000	2,200	1,700	POSITIVE
22	Α	A-72	150,000	2,000	750	POSITIVE
23	Α	A-73	62,000	1,800	860	POSITIVE
24	Α	A-74	18,000	1,200	670	POSITIVE
25	Α	A-75	130,000	18,000	11,000	POSITIVE
	AVERAG	E COUNT:	87,840	3,787	2,272	92%

NOTES: SAMPLES SHOWN AS <10 OR <100 ARE AVERAGED AS A 10 OR AS A 100, RESPECTIVELY IN THE AVERAGES SHOWN

RESULTS OF FOUR DAY "OLR" STUDY AT "AZBM-ZT"

AS REPORTED BY OUTSIDE CONTRACTED LABORATORY #4

TEST CONDUCTED: 17 NOVEMBER, 1998 (DAY 3)

RINSED CHILLED SAMPLES OF ON-LINE REPROCESSED BIRDS TAKEN POST WATER RINSE & IOBW FROM SITE "B"

SAMPLE SAMPLE NUMBER SITE CODE		SPECIMEN AEROBIC PLATE NUMBER COUNT /GM		(VRB-G	OBACTERIACEA LUCOSE AGAR) FU/ML	(EC	E. COLI C + Mug) CFU/ML	SALMONELLA GENE TRAK	
1	CR	B-51	1,500	<	10	<	10	negative	
2	CR	B-52	900	<	10	<	10	negative	
3	CR	B-53	900	<	10	<	10	negative	
4	CR	B-54	46,000	<	10	<	10	negative	
5	CR	B-55	1,000	<	10	<	10	negative	
6	CR	B-56	66,000	<	10	<	10	negative	
7	CR	B-57	5,500	<	10	<	10	negative	
8	CR	B-58	1,300	<	10	<	10	negative	
9	CR	B-59	600	<	10	<	10	negative	
10	CR	B-60	2,800	<	10	<	10	negative	
11	CR	B-61	900	<	10	<	10	negative	
12	CR	B-62	1,700	<	10	<	10	negative	
13	CR	B-63	1,000	<	10	<	10	negative	
14	CR	B-64	1,600	<	10	<	10	negative	
15	CR	B-65	1,800	<	10	<	10	negative	
16	CR	B-66	4,800	<	10	<	10	negative	
17	CR	B -67	11,000	<	10	<	10	negative	
18	CR	B-68	300	<	10	<	10	negative	
19	CR	B-69	2,000	<	10	<	10	negative	
20	CR	B-70	600	<	10	<	10	negative	
21	CR	B-71	4,500	<	10	<	10	negative	
22	CR	B-72	1,100	<	10	<	10	negative	
23	CR	B-73	1,200	<	10	<	10	negative	
24	CR	B-74	2,700	<	10	<	10	negative	
25	CR	B-75	5,900	<	10	<	10	negative	
	AVERAG	E COUNT:	6,704	<	10	<	10	0%	

NOTESSAMPLES SHOWN AS <10 OR <100 ARE AVERAGED AS A 10 OR AS A 100, RESPECTIVELY IN THE AVERAGES SHOWN

SUMMARY OF RESULTS - FOUR DAY OLR STUDY AT "ZT" (DAY 4)

(Chilled Samples)

Date of Sampling: November 18, 1998

Microbiology Lab:

Ralston Analytical Lab, St Louis, MO

	Day 4							
Normal Birds	# of Samples	APC	Entero	E. coli	Salmonella Gene-Track			
Site "A"	24	70,708	4,830	3,494	38%			
Average Site "A"	24	70,708	4,830	3,494				
Incident Rate Site "A"		100%	100%	100%	38%			

On-Line Reprocessed Birds

Site "B"							
Sile B	25	5,364	<	16	<	15	0%
• • • • • • • • • • • • • • • • • • • •							
Average Site "B"	25	5,364	<	16	<	15	****
Incident Rate Site "B"		100%		8%		4%	0%

Notes: a) Avg. Site = Avg. of site, not Avg. of samples.
b) Samples detected at the < 10 or <100 level, were averaged as 10 or 100 respectively.

c) Samples were cold upon arrival.

RESULTS OF FOUR DAY "OLR" STUDY AT "AZBM-ZT"

AS REPORTED BY OUTSIDE CONTRACTED LABORATORY #4
TEST CONDUCTED: 18 NOVEMBER, 1998 (DAY 4)
UNRINSED CHILLED SAMPLES OF NORMAL BIRDS FROM SITE "A"

SAMPLE NUMBER	SAMPLE SITE CODE	SPECIMEN NUMBER	AEROBIC PLATE COUNT /GM	ENTEROBACTERIACEAE (VRB-GLUCOSE AGAR) CFU/ML	E. COLI (EC + Mug) CFU/ML	SALMONELLA GENE TRAK
4	۸	A 70	47.000			
1	A	A-76	47,000	1,000	590	POSITIVE
2	A	A-77	670,000	28,000	19,000	POSITIVE
3	Α	A-78	67,000	7,300	3,300	POSITIVE
4	Α	A-79	20,000	780	190	negative
5	Α	A-80	29,000	1,300	1,100	negative
6	Α	A-81	26,000	2,200	1,500	negative
7	Α	A-82	14,000	1,300	1,100	negative
8	Α	A-83	24,000	3,000	2,600	negative
9	Α	A-84	32,000	12,000	10,000	POSITIVE
10	Α	A-85	24,000	2,800	2,500	POSITIVE
11	Α	* A-86	*	*	*	*
12	Α	A-87	110,000	5,900	2,400	negative
13	Α	A-88	18,000	1,000	630	negative
14	Α	A-89	22,000	3,500	3,800	POSITIVE
15	Α	A-90	35,000	2,100	2,200	
16	Α	A-91	46,000	3,100	2,400	negative
17	A	A-92	42,000	4,000	4,000	negative
18	A	A-93	62,000	9,800		negative
19	A	A-94	53,000		8,300	negative
20	A	A-95	110,000	6,500	5,200	negative
21	A	A-96	140,000	3,900	3,100	negative
22	Ā	A-90 A-97	'	6,300	3,100	POSITIVE
23	A	A-98	58,000	4,600	2,500	negative
23 24	A		12,000	570	270	negative
2 4 25		A-99	12,000	680	85	POSITIVE
20	AVEDAG	A-100	24000	4,300	4,000	POSITIVE
AVERAGE COUNT:			70,708	4,830	3,494	38%

NOTES: SAMPLES SHOWN AS <10 OR <100 ARE AVERAGED AS A 10 OR AS A 100, RESPECTIVELY IN THE AVERAGES SHOWN * Sample A-86 was missing from the sample set.